



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Kawneer Company, Inc.
555 Guthridge Court
Norcross, GA 30092

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "7225/8225TL" Thermally Broken Aluminum Fixed over Project-Out Window - S.M.I.

APPROVAL DOCUMENT: Drawing No. 1416, titled "7225/ 8225TL Fixed/ Project-Out Window (Small Missile Impact)", sheets 1 through 4 of 4, dated 06/20/05, with revision D1 dated 02/26/13, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Section Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/ series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 13-0304.11 and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P. E.



MP
8/15/14

NOA No. 14-0430.15
Expiration Date: December 01, 2015
Approval Date: August 21, 2014
Page 1

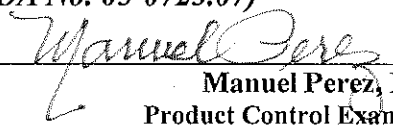
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under previous NOA No. 13-0304.11)
2. Drawing No. 1416, Sheets 1 through 4 of 4, titled "7225/ 8225TL Fixed/ Project-Out Window (Small Missile Impact)", dated 06/20/05, with revision D1 dated 02/26/13, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
(Submitted under previous NOA No. 13-0304.11)

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
7) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of an aluminum fixed/ over project-out window, prepared by Farabaugh Engineering and Testing, Inc., Test Reports No. FET-T248-11 dated 08/08/11 and FET-T248-11 dated 07/28/11, both signed and sealed by Daniel G. Farabaugh, P.E.
(Submitted under previous NOA No. 13-0304.11)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
7) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of an aluminum fixed/ over project-out window, prepared by Hurricane Test Laboratory, LLC, Test Report No. HTL-G049-0102-05, dated 01/12-5/25/05, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No. 05-0725.07)
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Small Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum fixed/ over project-out window, prepared by Hurricane Test Laboratory, LLC, Test Report No. HTL-G049-0505-05, dated 01/12-5/25/05, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No. 05-0725.07)


Manuel Perez, P. E.
Product Control Examiner
NOA No. 14-0430.15
Expiration Date: December 01, 2015
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum fixed/ over project-out window, prepared by Hurricane Test Laboratory, LLC, Test Report No. HTL-G049-0403-05, dated 01/12-5/25/05, signed and sealed by Vinu J, Abraham, P.E.
(Submitted under NOA No. 05-0725.07)

C. CALCULATIONS


1. Anchor verification calculations and structural analysis, complying with FBC, prepared by W. W. Schaefer Engineering & Consulting P.A., dated 09/01/10, signed and sealed by Warren W. Schaefer, P.E.
(Submitted under NOA No. 11-1013.11)
2. Glazing complies with ASTM E1300-04/ 09

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 14-0423.16 issued to Eastman Chemical Company (MA) for their "Saflex HP Clear or Color Glass Interlayers" dated 06/19/14, expiring on 04/14/18.
2. Notice of Acceptance No. 13-0129.27 issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont Butacite® PVB Interlayer" dated 04/11/13, expiring on 12/11/16.
3. Test reports on: 1) ASTM C864 Option II passed;
2) ASTM D412C Tensile Test 30HRS passed 1500 PSI;
3) ASTM D395B Compression Set 22 HRS with 100°F passed 21% and 28% ≤ 29%;
4) ASTM C661 Durometer, Shore A 60 ±5
along with AAMA 702-04 CLASS A, Verified Component List of Extra High Performance Replaceable Fenestration Weather seals by an AAMA Accredited Laboratory, P/N: TR14649E issued by TremCo, Inc., dated 01/06/2010 by AAMA Certification Program.
(Submitted under NOA No. 10-0908.09)

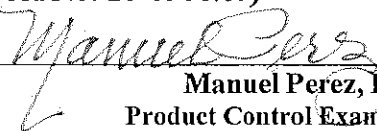

Manuel Perez, P.E.
Product Control Examiner
NOA No. 14-0430.15

Expiration Date: December 01, 2015
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E. MATERIAL CERTIFICATIONS (CONTINUED)

4. Test reports on: 1) ASTM D624C Tear Test passed 141 pli \geq 125 pli
2) ASTM D412C Tensile Test 30HRS passed 2350 PSI and 2130PSI;
3) ASTM D395B Compression Set 22 HRS with 100°F passed 21 % and 28% \leq 30%;
4) ASTM D2240 Shore A Hardness passed 83A \leq 85 (\pm 5) durometer;
5) ASTM D1149 Ozone Resistance 100 HR/ 40°F/ 20% strain/ 100 pphm NO Cracks;
6) ASTM D573 Heat Resistance 70 HR/ 100°C passed: Tensile -1% \leq 15%, Elongation -38% \leq 40%, Hardness 8 \leq 10 and 7PSI \leq 10PSI;
7) ASTM D624C Tear Test passed 158 pli \geq 125 pli;
8) ASTM D746/ C509 Low Temperature Brittleness at -40°C passed NO Cracks;
along with Verified Component List of Extra High Performance Replaceable Fenestration Setting Block by an AAMA Accredited Laboratory, P/N: 5,483,775 issued by Kawneer Company, Inc., dated 01/06/2010 by AAMA Certification Program. *(Submitted under NOA No. 10-0908.09)*
5. Test reports on: 1) ASTM C661 Durometer, Shore A 65 \pm 5;
2) ASTM D412C Tensile Test 30HRS passed 350 PSI;
along with AAMA 702-04 CLASS A, Verified Component List of Extra High Performance Replaceable Fenestration Weather seals by an AAMA Accredited Laboratory, P/N: E202 issued by Ultrafab, Inc., dated 01/06/2010 by AAMA Certification Program. *(Submitted under NOA No. 10-0908.09)*
6. Test reports on: 1) ASTM C661 Durometer, Shore A 60 \pm 5;
2) ASTM D412C Tensile Test 30HRS passed 350 PSI;
along with AAMA 805.2-94, Group A, Verified Component List of Bonding Back-Bedding Compound by an AAMA Accredited Laboratory, P/N: InstantGlaze I issued by Dow Corning, dated 09/08/2009 by AAMA Certification Program. *(Submitted under previous NOA No. 10-0908.09)*
7. Test reports on: 1) ASTM C864 Option II passed;
2) ASTM D412C Tensile Test 30HRS passed 350 PSI;
3)ASTM D395B Compression Set 22 HRS with 100°F passed 21 % and 28% \leq 30%;
4)ASTM C661 Durometer, Shore A 70 \pm 5
along with AAMA 702-04 CLASS A, Verified Component List of Extra High Performance Replaceable Fenestration Weather seals by an AAMA Accredited Laboratory, P/N: RM270555 issued by Trelleborg/ EPG, Inc., dated 01/06/2010 by AAMA Certification Program. *(Submitted under NOA No. 10-0908.09)*


Manuel Perez, P. E.
Product Control Examiner
NOA No. 14-0430.15
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F. STATEMENTS

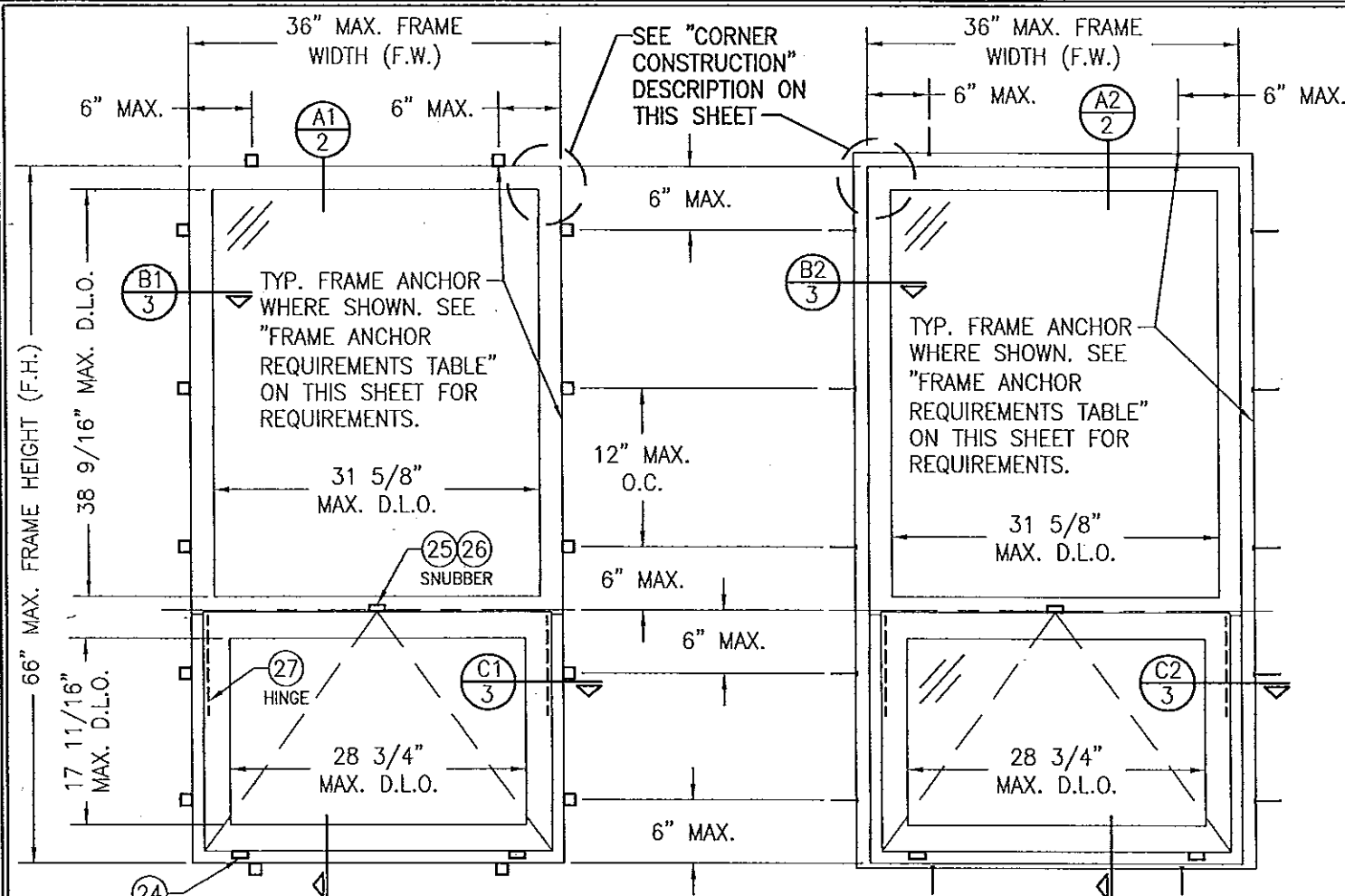
1. Statement letter of conformance to and complying with **FBC 5th Edition (2014)**, dated 04/14/14, issued by W.W. Schaefer Engineering & Consulting P.A., signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of conformance with **ANSI/ AAMA/ NWWDA 11/ I.S.2-97** and complying with **FBC-2010**, dated 02/26/13, issued by W.W. Schaefer Engineering & Consulting P.A., signed and sealed by Warren W. Schaefer, P.E.
(Submitted under previous NOA No. 13-0304.11)
3. Statement letter of no financial interest and independence, dated 02/26/13, issued by W.W. Schaefer Engineering & Consulting P.A., signed and sealed by Warren W. Schaefer, P.E.
(Submitted under previous NOA No. 13-0304.11)
4. Laboratory compliance letter for Test Reports No. **FET-T248-11** and **FET-T248-11**, issued by Farabaugh Engineering and Testing, Inc., both dated 08/08/11, signed and sealed by Daniel G. Farabaugh, P.E.
(Submitted under previous NOA No. 13-0304.11)
5. Proposal No. **10-0479** issued by Product Control, dated 07/01/10, signed by Manuel Perez, P.E.
(Submitted under NOA No. 10-0908.09)
6. Laboratory compliance letter for Test Reports No. **HTL-G049-0102-05**, **HTL-G049-0403-05** and **HTL-G049-0505-05**, all issued by Hurricane Test Laboratory, LLC, dated 07/07/05, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No. 05-0725.07)

G. OTHERS

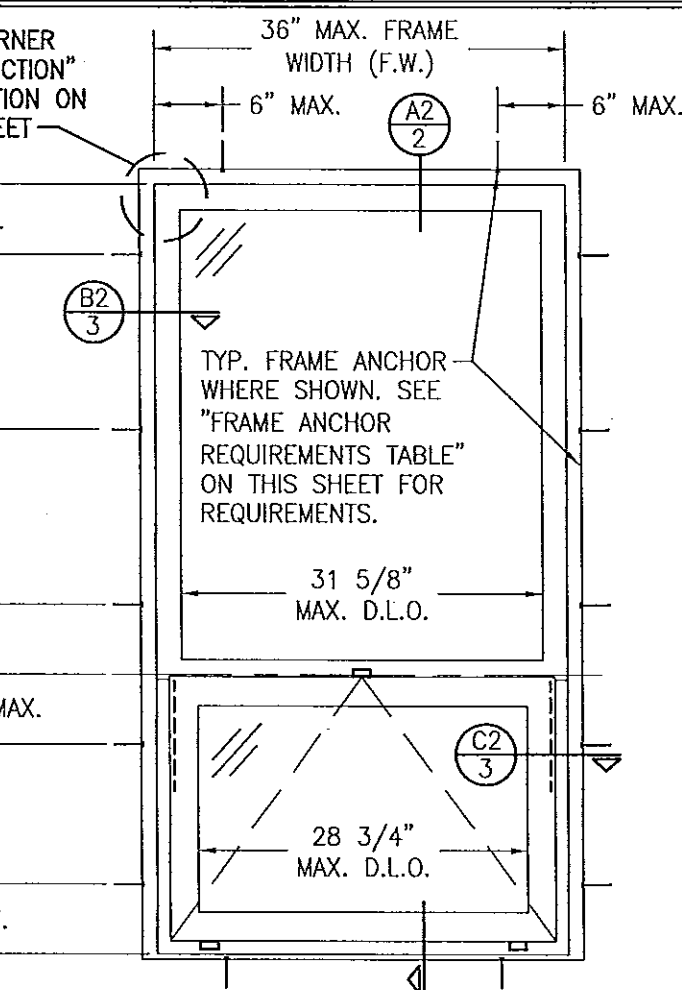
1. Notice of Acceptance No. **13-0304.11**, issued to Kawneer Company, Inc. for their Series **"7225/ 8225TL"** Aluminum Fixed over Project-Out Window - S.M.I., approved on 05/23/13 and expiring on 12/01/15.


Manuel Perez, P. E.
Product Control Examiner
NOA No. 14-0430.15

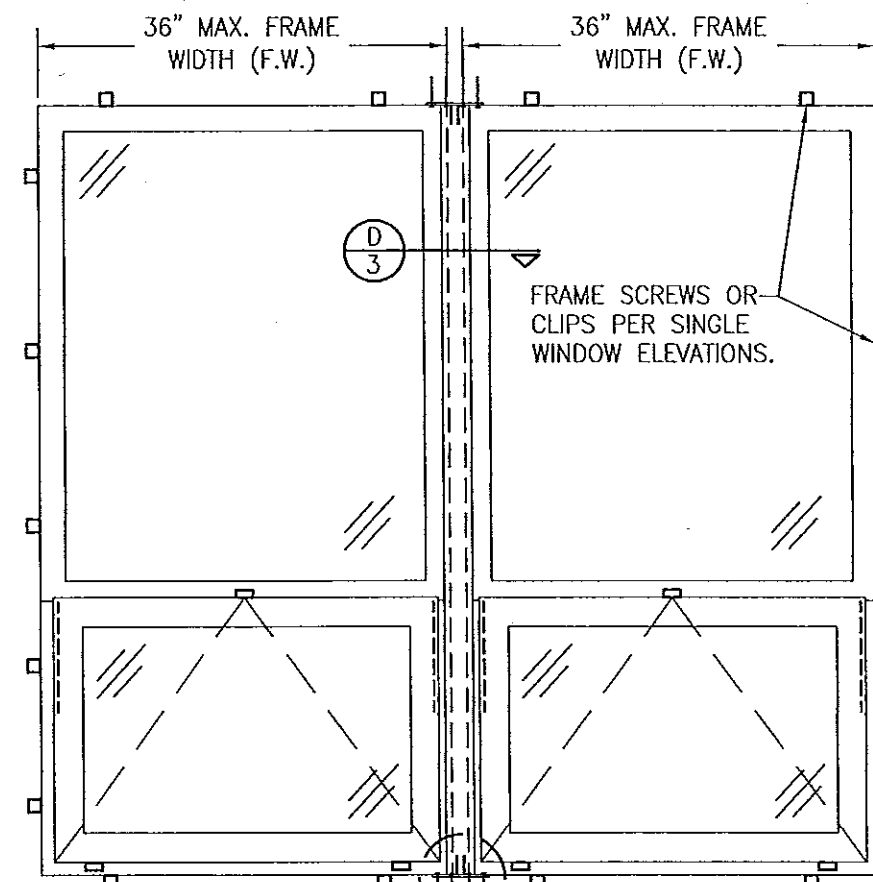
Expiration Date: December 01, 2015
Approval Date: August 21, 2014



EXTERIOR ELEVATION
SINGLE FIXED OVER PROJECT-OUT WINDOW
(CLIP MOUNT CONDITION)
 SCALE: 3/4"=1'-0"



EXTERIOR ELEVATION
SINGLE FIXED OVER PROJECT-OUT WINDOW
(SHEAR SCREW MOUNT CONDITION)
 SCALE: 3/4"=1'-0"



EXTERIOR ELEVATION
MULTIPLE FIXED OVER PROJECT-OUT WINDOWS
(CLIP MOUNT CONDITION)
 SCALE: 3/4"=1'-0"
 (FOR DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATIONS.)
 DOUBLE WINDOW SHOWN. ANY NUMBER OF WINDOWS MAY BE COMBINED
 HORIZONTALLY IN ANY OPENING.

CORNER CONSTRUCTION

JAMB CORNERS:

COPED, SECURED WITH TWO (2) NO. 8 X 1 1/4" S.S. SCREWS PER CORNER AND SEALED WITH TREMCO-TREMSIL 600 SEALANT.

SASH CORNERS:

COPED, SECURED WITH TWO (2) NO. 8 X 1 1/4" S.S. SCREWS PER CORNER AND SEALED WITH TREMCO-TREMSIL 600 SEALANT.

ALLOWABLE DESIGN PRESSURE
+100/-130 PSF
SMALL MISSILE IMPACT RATED

FRAME ANCHOR REQUIREMENTS TABLE

CLIP & FRAME SCREWS

OPENING TYPE (SUBSTRATE)	FRAME TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
MIN. 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S. OR S.S.).

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWN BY: M.S.J.		CHECKED BY: W.W.S.	
PLOT: 1-16		DATE: 08/20/05	
NO.	REVISION	DESCRIPTION	DATE
A1	UPDATE FOR CODE COMPLIANCE	W.R.M.	04/15/08
B1	UPDATE TO CURRENT STANDARDS	W.W.S.	09/01/10
C1	UPDATE CONSULTANTS ADDRESS	W.R.M.	11/02/11
D1	ADD GLAZING COMPOS	W.R.M.	02/26/13
DRAWING TITLE: 7225/8225TL FIXED/PROJECT-OUT WINDOW (SMALL MISSILE IMPACT)			
MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
DRAWING NO. 1416			
REV. D			
SHEET NO. 1 OF 4			

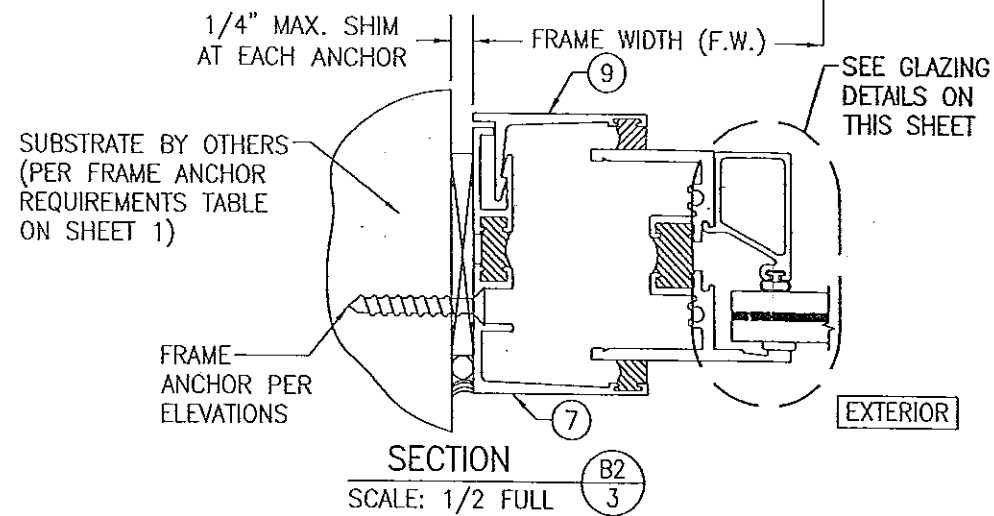
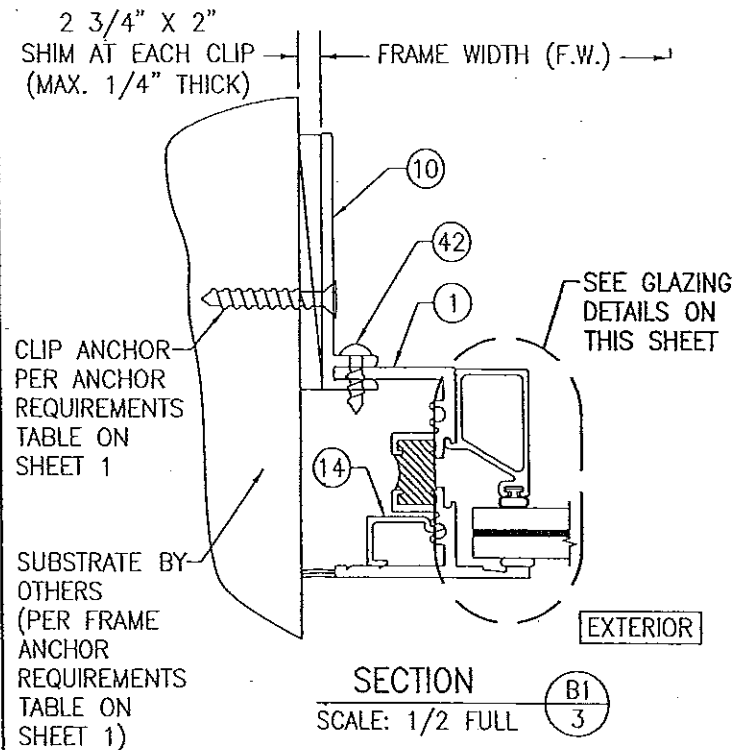
GENERAL NOTES:

- THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
- OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
- ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
- THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR SMALL MISSILE IMPACT WINDOWS.
- THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HMHZ).
- THESE WINDOWS MAY NOT BE INSTALLED AT ELEVATIONS BELOW 30 FT. ABOVE GRADE WITHOUT AN APPROVED SHUTTER.
- ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
- DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF KD = 0.85 MAY BE APPLIED PER THE ASCE-7 STANDARD.
- NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR CD = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY.
- MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.

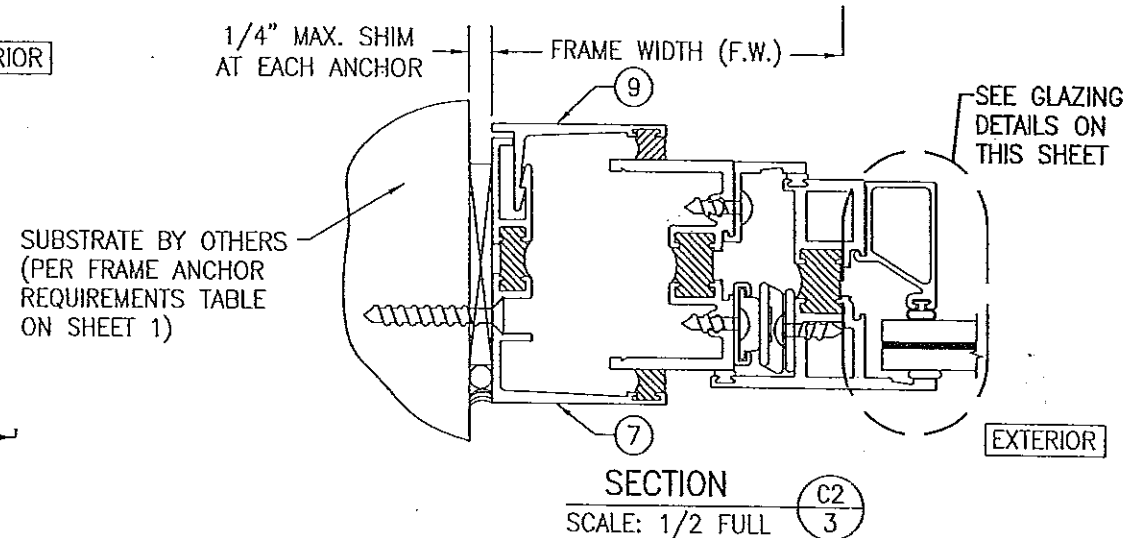
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 14-0430.15
 Expiration Date 12/01/2015
 By *Warren W. Schaefer*
 Miami Dade Product Control

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 13-0305.17
 Expiration Date 12/01/2015
 By *Warren W. Schaefer*
 Miami Dade Product Control

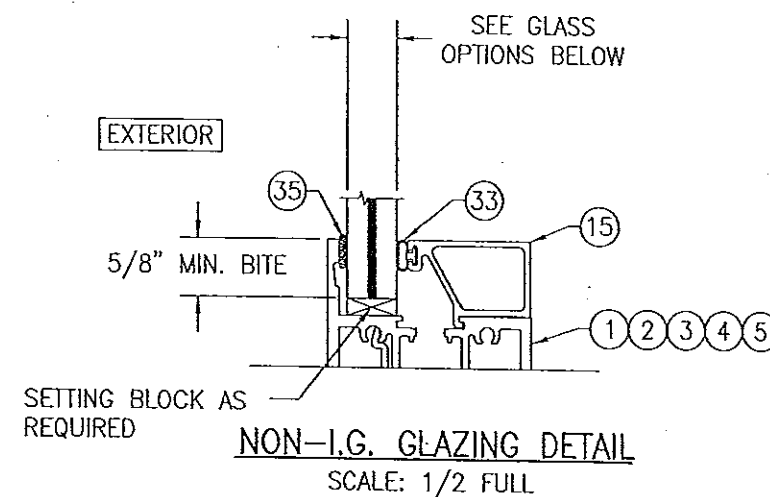
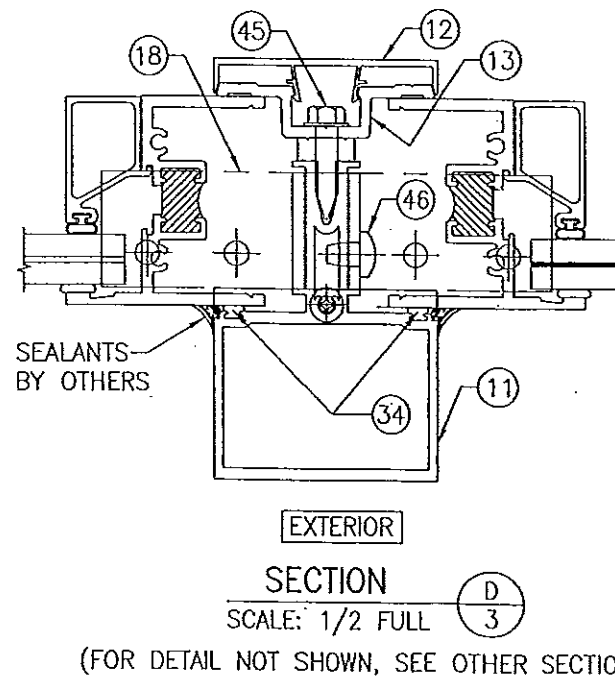
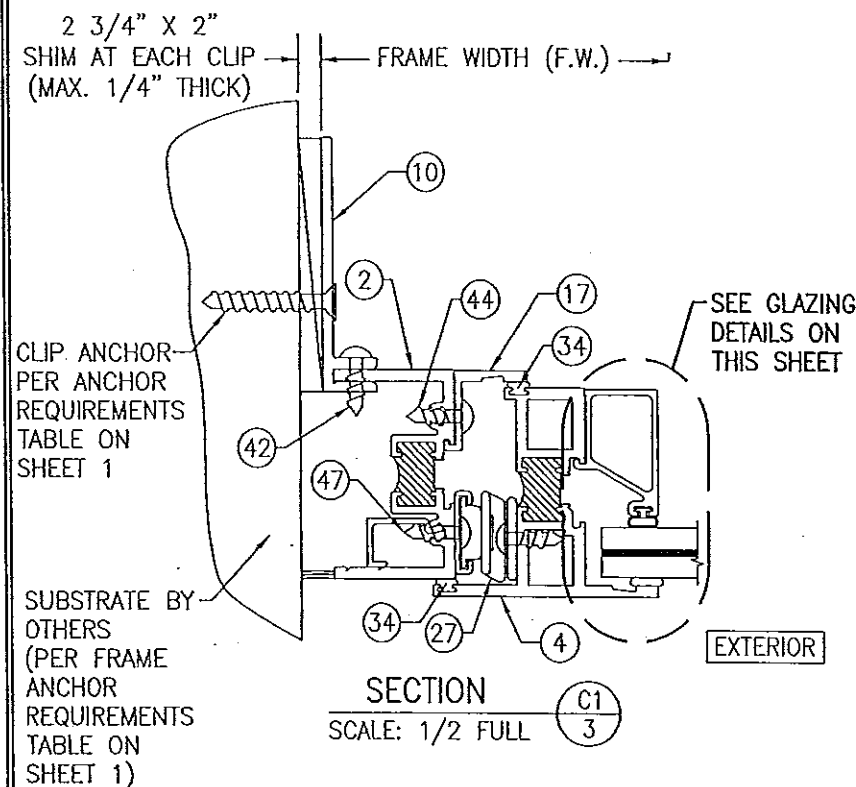




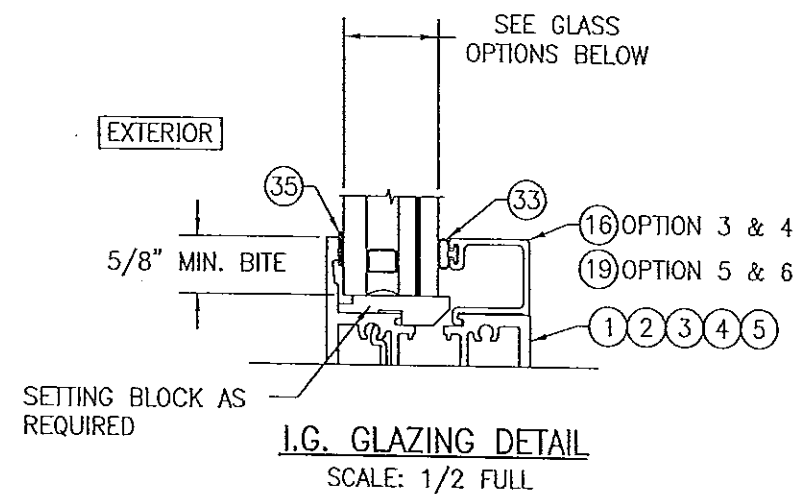
FOR DETAIL NOT SHOWN, SEE SECTION B1/3



FOR DETAIL NOT SHOWN, SEE SECTION C1/3



- GLASS OPTION 1: 9/16" THICK LAMINATED GLASS (1/4" H.S./0.060 SOLUTIA SAFLEX/1/4" H.S.)
- GLASS OPTION 2: 9/16" THICK LAMINATED GLASS (1/4" H.S./0.060 DUPONT BUTACITE PVB/1/4" H.S.)



- GLASS OPTION 3: 1" THICK LAMINATED GLASS WITH 3/16" THICK TEMPERED OUTER PANE, 3/8" AIR SPACER AND 9/16" THICK LAMINATED INNER GLASS (3/16" H.S./0.060 SOLUTIA SAFLEX/3/16" H.S.)
- GLASS OPTION 4: 1" THICK LAMINATED I.G. GLASS WITH 3/16" THICK TEMPERED OUTER PANE, 3/8" AIR SPACER AND 9/16" THICK LAMINATED INNER GLASS (3/16" H.S./0.060 DUPONT BUTACITE PVB/3/16" H.S.)

PRODUCT REVISED as complying with the Florida Building Code

Acceptance No. 14-0430.15

Expiration Date 12/01/2015

By *Manuel Perez*

Miami Dade Product Control

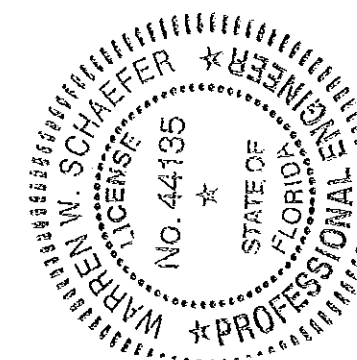
PRODUCT REVISED as complying with the Florida Building Code

Acceptance No. 13-0304.11

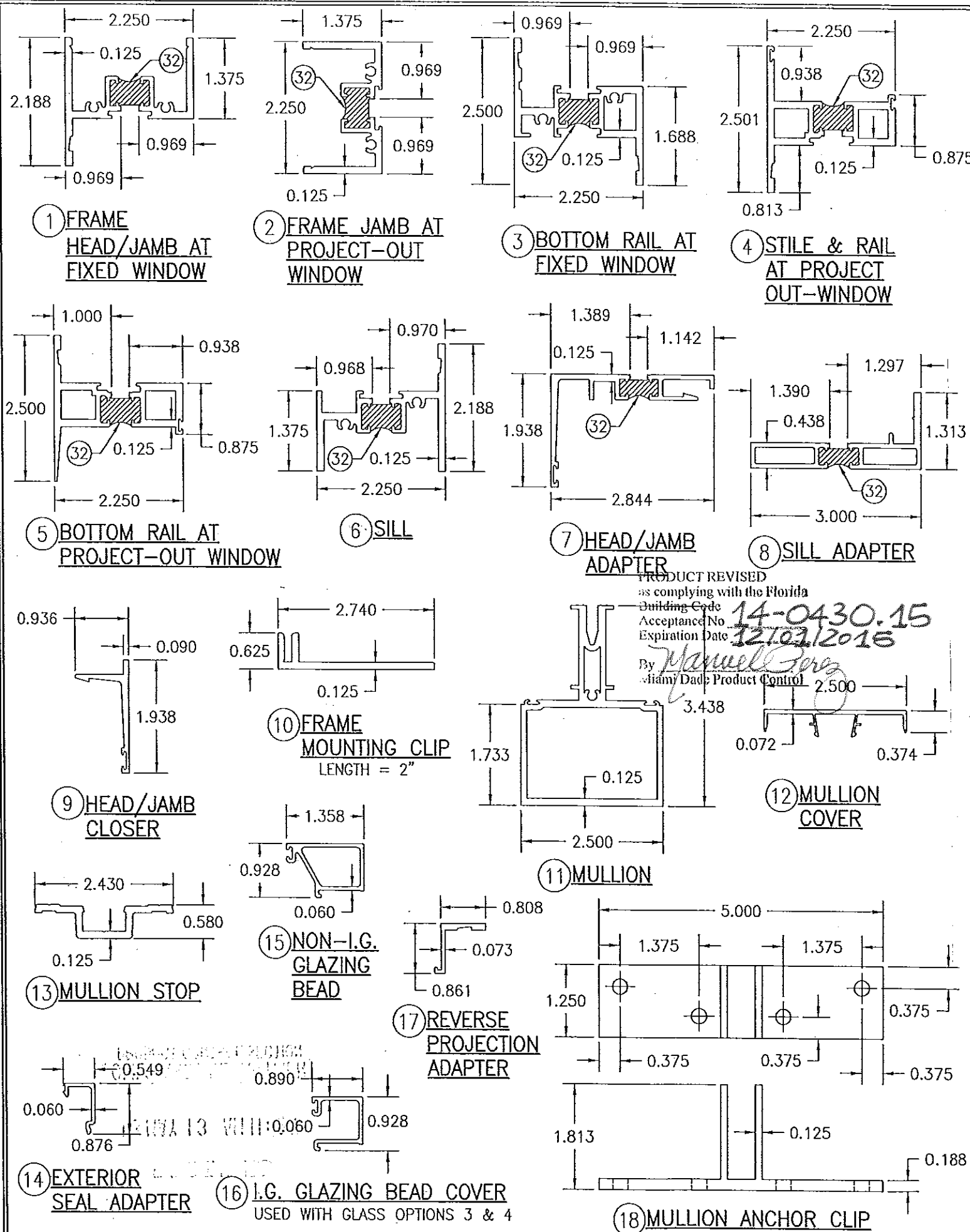
Expiration Date 12/01/2015

By *Manuel Perez*

Miami Dade Product Control



DRAWN BY: U.S.J.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 05/20/05	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: 7225/8225TL FIXED/PROJECT-OUT WINDOW (SMALL MISSILE IMPACT)			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION: MAY 09 2013			
DRAWING NO. 1416		REV. D	
SHEET NO. 3		OF 4	



ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	228-034/228-134	FRAME HEAD/JAMB AT FIXED WINDOW	6063-T6 ALUMINUM (SEE NOTE 1)
2	228-034/228-134	FRAME JAMB AT PROJECT-OUT WINDOW	6063-T6 ALUMINUM (SEE NOTE 1)
3	225-251/225-351	BOTTOM RAIL AT FIXED WINDOW	6063-T6 ALUMINUM (SEE NOTE 1)
4	225-225/225-325	STILE & RAIL AT PROJECT-OUT WINDOW	6063-T6 ALUMINUM (SEE NOTE 1)
5	225-220/225-320	BOTTOM RAIL AT PROJECT-OUT WINDOW	6063-T6 ALUMINUM (SEE NOTE 1)
6	225-013/225-113	SILL	6063-T6 ALUMINUM (SEE NOTE 1)
7	224-054/224-154	HEAD/JAMB ADAPTER	6063-T6 ALUMINUM (SEE NOTE 1)
8	224-055/224-155	SILL ADAPTER	6063-T6 ALUMINUM (SEE NOTE 1)
9	325-059	HEAD/JAMB CLOSER	6063-T6 ALUMINUM
10	225-165	FRAME MOUNTING CLIP	6063-T6 ALUMINUM
11	224-071	MULLION	6063-T6 ALUMINUM
12	224-074	MULLION COVER	6063-T6 ALUMINUM
13	224-073	MULLION STOP	6063-T6 ALUMINUM
14	228-281	EXTERIOR SEAL ADAPTER	6063-T6 ALUMINUM
15	224-082	NON-I.G. GLAZING BEAD	6063-T6 ALUMINUM
16	224-083	I.G. GLAZING BEAD	6063-T6 ALUMINUM
17	225-079	REVERSE PROJECTION ADAPTER	6063-T6 ALUMINUM
18	225-548	MULLION ANCHOR CLIP	6063-T6 ALUMINUM
19	224-063	I.G. GLAZING BEAD	6063-T6 ALUMINUM
HARDWARE			
24	225-405	PROJECT-OUT CAM LOCK	WHITE BRONZE US-25D (2 PER WINDOW)
25	229-156	FRAME SNUBBER (1 PER WINDOW)	WHITE ETPU; SECURED WITH 2 NO. 10 X 7/16" S.S. PH SCREWS
26	229-154	VENT SNUBBER (1 PER WINDOW)	304 SERIES SS; SECURED WITH 2 NO. 10 X 7/16" S.S. PH SCREWS
27	229-101	ADVANTAGE 4-BAR HINGE	300 SERIES SS
28	225-936	WEEP CHECK VALVE	VERNAY LABRATORIES VA-4394 1 AT MID-SPAN OF SASH
SEALS AND SEALANTS			
32	-	DEBRIDGING/THERMAL BREAK (OPTIONAL)	2-PART POLYURETHANE
33	127-074	BULB GASKET	VISTAPLEX/POLYPROPYLENE
34	027-874	VENT WEATHERSTRIP	VISTAPLEX/POLYPROPYLENE
35	127-104	SILICONE	DOW CORNING INSTANT GLAZE, NOVAGARD SBC40-M170 OR MOMENTIVE RGS 7700
36	027-883	WEATHERSTRIP	SANTOPRENE
37	127-038	BACK-UP WEDGE	SCR-900
MISC. FASTENERS			
42	977-108	#10 X 3/4" SELF TAPPING PH SCREW	1 PER FRAME MOUNTING CLIP
43	128-415	#10 X 1/2" HHTF SCREW	2 PER CAM
45	128-406	1/4" X 1" HHTF SCREW	3" FROM ENDS & 9" O.C.
46	128-192	1/4" X 3/8" PHTF SCREW	1 PER MULLION ANCHOR CLIP
47	128-414	#10 X 7/16" PHTF SCREW	6 PER HINGE

(1) PARTS 1 THROUGH 8 MAY BE THERMALLY BROKEN AS SHOWN OR BE ONE WHOLE UN-CUT EXTRUSION (EXTRUSIONS ARE CUT TO ALLOW FOR THERMAL BREAK PLACEMENT).

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 13-0304.11
Expiration Date 12/01/2015
By *[Signature]*
Miami Dade Product Control

DRAWN BY: M.S.J.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 06/20/05	
NO.	REVISION DESCRIPTION	DATE	BY

DRAWING TITLE: 7225/8225TL FIXED/PROJECT-OUT WINDOW (SMALL MISSILE IMPACT)

MANUFACTURER: KAWNEER COMPANY, INC.
555 GUTHRIE COURT
NORCROSS, GA 30092
770-449-5555

CONSULTANTS: W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION: NO. 44135
DATE: MAY 09 2013
STATE OF FLORIDA
WARREN A. SCHAEFER, P.E.
LOCAL NO. 44135

DRAWING NO. 1416
SHEET NO. 4 OF 4